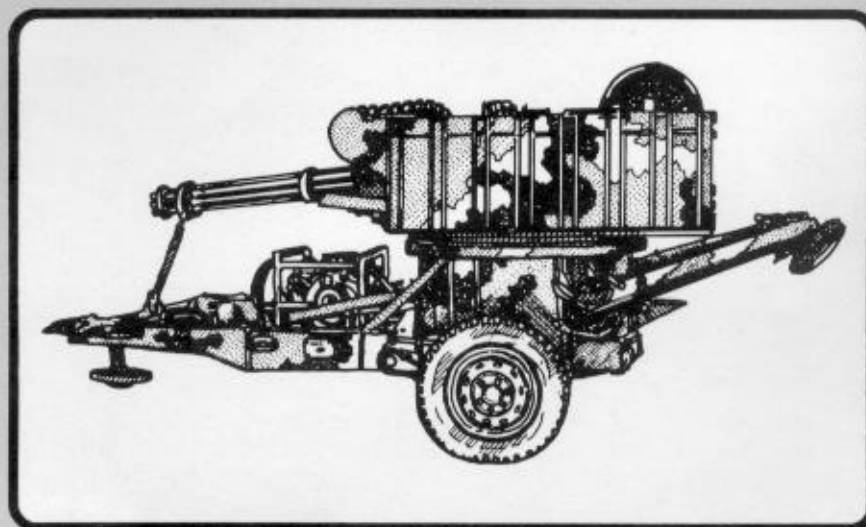


ARMY FM 10-534
AIR FORCE TO 13C7-10-161

AIRDROP OF SUPPLIES AND EQUIPMENT:

**RIGGING AIR DEFENSE
ARTILLERY GUN (VULCAN)**



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Washington, DC, 14 February 1989

AIRDROP OF SUPPLIES AND EQUIPMENT:
RIGGING AIR DEFENSE ARTILLERY GUN
(VULCAN)

This change adds procedures for rigging the M167A1 gun on a type V airdrop platform for low-velocity and LAPE airdrop.

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This change adds procedures for rigging the M167A2 gun with the 1 1/4-ton truck and accompanying ammunition load on a type V platform for low-velocity airdrop. Also, with this change, the distribution restriction statement must be changed on the cover of the basic manual as follows: DISTRIBUTION RESTRICTION. Approved for public release: distribution is unlimited. Also, change the distribution restriction statement on the Change 1 transmittal page to agree with the above statement. With the use of this statement, a destruction notice is not required. Please delete it where it appears.

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i through vi
1-1 and 1-2
8-1 through 8-37
Glossary-1 and Glossary-2
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CHAPTER 6	RIGGING THE M167A1 GUN ON A TYPE V AIRDROP PLATFORM FOR A LOW-VELOCITY AIRDROP	
6-1	Description of Load	6-1
6-2	Preparing Platform	6-1
6-3	Preparing and Placing Honeycomb Stacks	6-2
6-4	Stowing Accompanying Load	6-6
6-5	Preparing Gun	6-8
6-6	Positioning Gun	6-21
6-7	Stowing and Lashing Outrigger Arms	6-21
6-8	Lashing Gun	6-22
6-9	Building and Installing Parachute Stowage Platform	6-23
6-10	Covering Load	6-26
6-11	Installing Suspension Slings	6-26
6-12	Safetying Suspension Slings and Installing Emergency Restraint Clevises	6-27
6-13	Stowing Cargo Parachutes	6-29
6-14	Installing Release System	6-30
6-15	Installing Extraction System	6-31
6-16	Placing Extraction Parachute	6-33
6-17	Marking Rigged Load	6-33
6-18	Equipment Required	6-35
CHAPTER 7	RIGGING THE M167A1 GUN ON A TYPE V AIRDROP PLATFORM FOR A LAPE AIRDROP	
7-1	Description of Load	7-1
7-2	Preparing Platform	7-1
7-3	Stowing Accompanying Load	7-3
7-4	Preparing and Placing Honeycomb Stacks	7-9
7-5	Preparing Gun	7-12
7-6	Positioning Gun	7-18
7-7	Stowing and Lashing Outrigger Arms	7-18
7-8	Lashing Gun	7-20
7-9	Installing Attitude Control Bar (ACB)	7-21
7-10	Installing Extraction System	7-23
7-11	Placing Extraction Parachutes	7-23
7-12	Marking Rigged Load	7-23
7-13	Equipment Required	7-24
CHAPTER 8	RIGGING THE M167A2 GUN WITH THE 1 1/4-TON TRUCK (HMMWV) AND ACCOMPANYING AMMUNITION ON A TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP	
8-1	Description of Load	8-1
8-2	Preparing Platform	8-1
8-3	Stowing Accompanying Load	8-4
8-4	Preparing and Placing Honeycomb Stacks	8-11
8-5	Preparing Gun and Truck	8-13
8-6	Lifting and Positioning Gun and Truck	8-13
8-7	Stowing and Lashing Gun Outrigger Arms	8-15

	Page
8-8 Lashing Gun and Truck	8-16
8-9 Installing and Tying Suspension Slings	8-18
8-10 Building and Installing Parachute Stowage Platform	8-22
8-11 Stowing Cargo Parachutes	8-24
8-12 Installing Extraction System	8-25
8-13 Installing Provisions for Emergency Restraints	8-27
8-14 Installing Release System	8-27
8-15 Placing Extraction Parachute	8-29
8-16 Marking Rigged Load	8-29
8-17 Equipment Required	8-29
GLOSSARY	Glossary-1
REFERENCES	References-1

PREFACE

SCOPE

This manual tells and shows how to prepare and rig the M167 and M167A1, 20-millimeter air defense artillery guns (VULCAN) with accompanying ammunition loads. The guns are rigged for low-velocity airdrop from the C-130 and C-141 aircraft and for delivery by LAPE airdrop from the C-130 aircraft. Also included is the M167A2 gun rigged with the 1 1/4-ton truck (HMMWV) and accompanying ammunition load for low-velocity airdrop. This manual is designed for use by all parachute riggers.

USER INFORMATION

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and suggest ways for improving this manual.

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CHAPTER 1

INTRODUCTION

1-1. Description of Items

The M167 and M167A1, 20-millimeter air defense artillery guns are shown in Figures 1-1 and 1-2. The M167A2 gun is not shown. Each gun consists of the M167, 20-millimeter cannon; AN/VPS-2 radar set; M61 lead computing sight; and M42 gun carriage. The unrigged gun weighs 3,630 pounds (with 500 rounds of 20-millimeter ammunition in the storage can assembly). The gun is 79 inches wide. Its length is 188 inches (reducible to 161 inches). The height of the gun is 86 inches (reducible to 57 inches without the radar unit). The LIN of the gun is J96845. All procedures for rigging the M167A1 are valid for both the single- and dual-wheel VULCAN. The M167A2 gun is rigged the same way as the M167A1 gun.

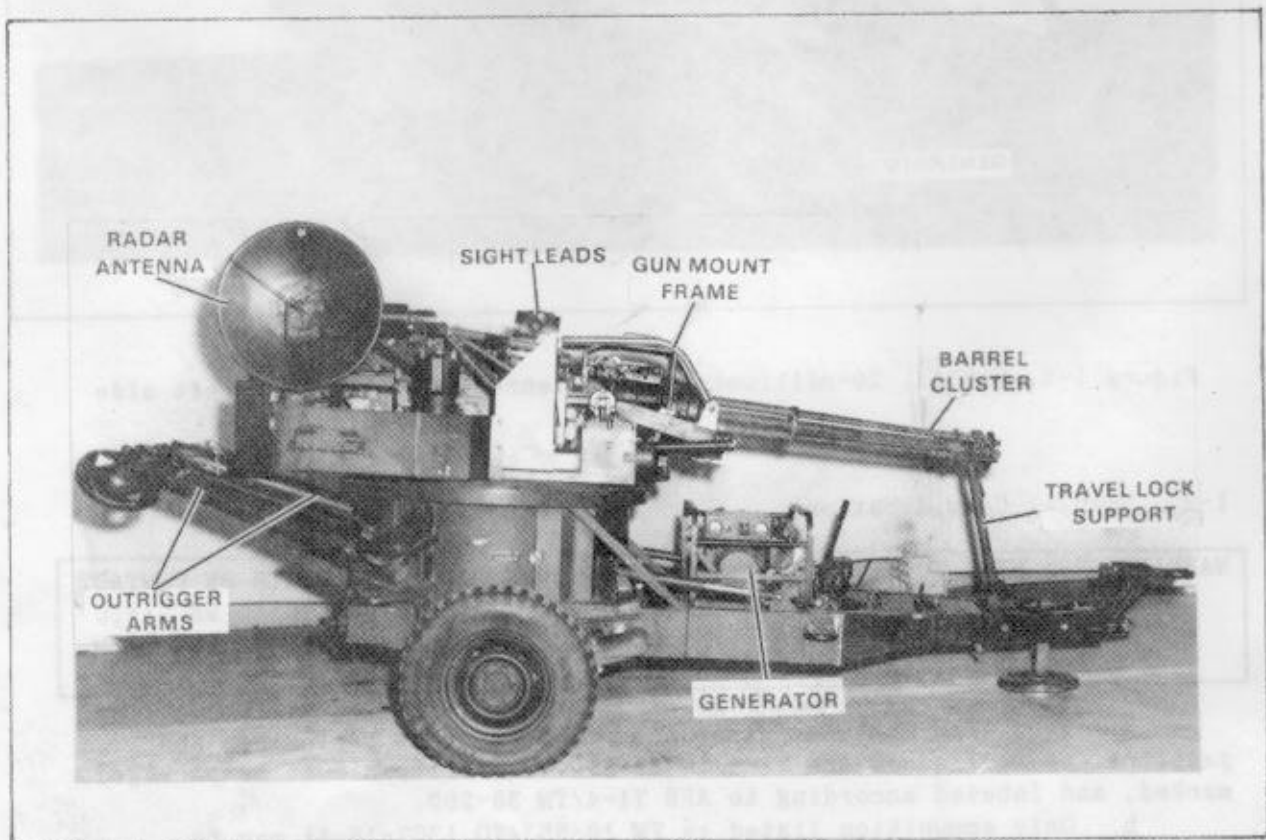


Figure 1-1. M167, 20-millimeter air defense artillery gun, right side

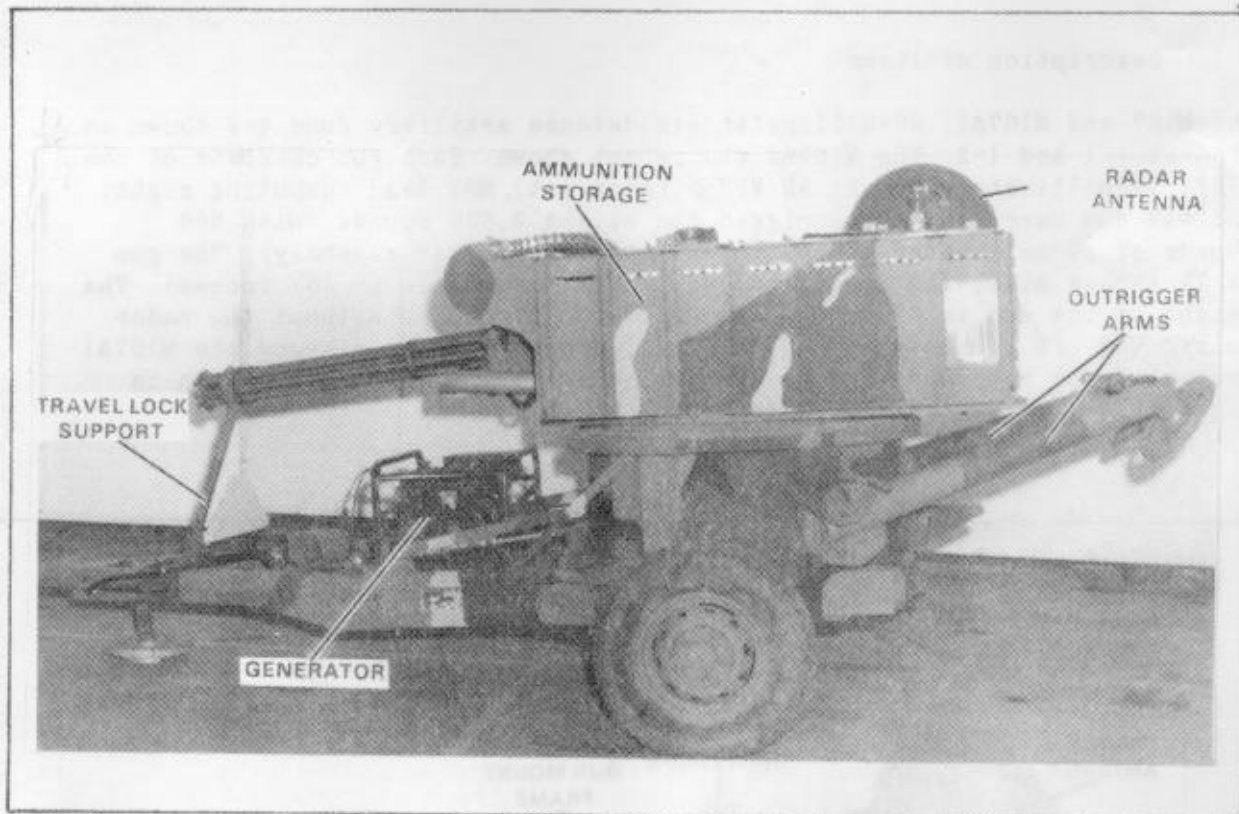


Figure 1-2. M167A1, 20-millimeter air defense artillery gun, left side

1-2. Special Considerations

WARNING: THE HIGH VOLTAGE USED WITH THESE GUNS CAN CAUSE DEATH ON CONTACT IF YOU FAIL TO OBEY THE SAFETY RULES. ONLY A QUALIFIED MECHANIC FROM THE TRANSPORTED UNIT MAY TAKE THESE GUNS APART OR PUT THEM BACK TOGETHER.

- a. Each load includes hazardous items, such as explosives and gasoline, as defined in AFR 71-4/TM 38-250. These items must be packaged, marked, and labeled according to AFR 71-4/TM 38-250.
- b. Only ammunition listed in FM 10-553/TO 13C7-18-41 may be airdropped.
- c. A copy of this manual must be available to the joint airdrop inspector during the before- and after-loading inspections.
- d. The gun can be dropped by LAPE as a single or tandem load.